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- 1. All-weather road A term used frequently in mapping to indicate a road which is passable throughout the year with no appreciable loss in capacity: "All-seasons" is considered to be more definitive where this type of classification is desired, since weather conditions such as cloudbursts, flooding, and snow blockage can completely close roads for varying periods. The preferred method of classifying roads, however, is by surface type, which is related directly to capacity.
- 2. <u>Limited all-weather road</u> Same as all-weather road except that capacity is reduced considerably during bad weather.
- 3. Fair-weather road A term used frequently for mapping to indicate a road which quickly becomes impassable in bad weather and which cannot be kept open by normal maintenance. Since impassability is more closely related to season than to weather, the term "seasonal road" provides a better description. Classification by surface type is preferred, however, since this is related directly to capacity.

DIA review(s) completed.

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Requirement 2. Route Capacities (Reference: Section II.C. of Terms of Reference)

- 1. Provide present dry and wet season route capacities for North Vietnam and Laos as follows:
 - a. Routes 1A and 15 south of the Thanh Hoa area.
- b. All routes between Vinh or the coast and the Tan Ap area on route 15.
- c. All connections between routes 15 and 101 and the routes in
- d. Laotian routes 12, 23, 911, 9, 92, 921, 922, 923, 96, 165, and routes south of 165.
- e. Any other routes considered to be significant in supplying Laos or South Vietnam.
- 2. What effect did the US/GVN air strikes have on routes capacities in North Vietnam during 1965? What effect have the recent interdiction efforts had on route capacities in Laos? What is the present throughput capacity of the Laotian supply route, taking recent interdiction efforts into account?
- 3. What effect will present construction activities have on route capacities in North Vietnam and Laos during 1966? What will be the probable throughput capacity of the Laotian supply route at the end of 1966,

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assuming the same level of US/GVN interdiction as in 1965? How much of this route will be all-weather?

- 4. Provide an estimate of the present theoretical capacity of the sea route from North Vietnam, taking into consideration current Market Time operations.
- 5. Provide present dry and wet season capacities of the roads in Cambodia that approach the border of South Vietnam. How much tonnage could be moved over these routes without active, overt Cambodian cooperation?

Deadline to CIA: 28 January 1966

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Requirement 2. Route Capacities

NORTH VIETNAM

Highway Route Segment	Max. Ca Dry	p. Wet	Dry	Wet	66 Max. Dry	Cap. Wet	Remarks
Than Hoa - Rt. 7A 7A Jet - Vinh Vinh - Ha Tinh Ha Tinh - SVN Bdr	3800 1200 850 750	1100 250 100 100	1350 1200 850 850	250 250 100 100	*	*	* Significant improvements to main coastal Route IA are not expected. Development of an interior alternate north-south artery is probably underway to alleviate present reliance on Rt. IA.
Bai Thuong - Nghia Hung Nghia Hung - Rt. 7A 7 Jct - Vinh Vinh - Xom Con Cau (via Rt. 8 to Dia Loi) Dia Loi - Xom Con Cau Xom Con Cau - Mu Gia Pass	550 550 750 450 800 600	100 100 150 100	500 550 750 450 600 450	100 100 150 100	750 750 750 750 750 750	150 150 150 150 100	** Major portions of Route 15 will probably be integrated into the alternate inland north-south artery.
Rt. 1A - Vat Giav Vat Giav - Cua Rao Cua Rao - Laos Bdr	1050 700 600	200 150 100	900 700 450	200 150 100	900 700 500	200 150 150	
Linh Cam - Rao Qua Rao Qua - Keonua Pass	1100 450	350 100	700 400	150 100	700 500	150 150	
AP-1-335-4-1-65 INT				SE	CRET	or electric district the production of the produ	
	Route Segment Than Hoa - Rt. 7A 7A Jct - Vinh Vinh - Ha Tinh Ha Tinh - SVN Bdr Bai Thuong - Nghia Hung Nghia Hung - Rt. 7A 7 Jct - Vinh Vinh - Xom Con Cau (via Rt. 8 to Dia Loi) Dia Loi - Xom Con Cau Xom Con Cau - Mu Gia Pass Rt. 1A - Vat Giav Vat Giav - Cua Rao Cua Rao - Laos Bdr Linh Cam - Rao Qua	Highway Route Segment Season Than Hoa - Rt. 7A 7A Jct - Vinh Vinh - Ha Tinh Ha Tinh - SVN Bdr Bai Thuong - Nghia Hung Nghia Hung - Rt. 7A 7 Jct - Vinh Vinh - Xom Con Cau (via Rt. 8 to Dia Loi) Dia Loi - Xom Con Cau Xom Con Cau - Mu Gia Pass Rt. 1A - Vat Giav Vat Giav - Cua Rao Cua Rao - Laos Bdr Linh Cam - Rao Qua Rao Qua - Keonua Pass Max. Ca Dax. Cax Nax. Ca Dry Season 3800 750 750 750 750 750 750 750 750 750 7	Route Season Se	Highway Route Segment Season Season	Highway Route Season S	Highway Route Season S	Highway Route Season Sea

Requirement 2. Route Capacities

Highway Route Number	Highway			Present Max. Ca Dry Season	p. Wet	Project 66 Max. Dry Season	Cap. Wet	Remarks
Number				50	0	300	100	Portions of route (central portion) undefined.
75	Ke Mung - Ban Na Khom			30	Ů	000	200	
76	Ban Na Khom - LV Bord			50	0			Central portion undefined. Intended development undiscernable.
152	Ha Tinh - Dia Loi	800	150	800	150	800	150	
102	Rt. 101 - Laos Bdr	300	0	150	150	300	150	
103	Rt. 101 - Xom Bang Xom Bang - Rt. 102	550 50	100 0	550 150	100	550 300	100 100	
116	Rt. 15 - Ban Co Ba Ban Co Ba - Ban Chieng	700 600	150 100	400 600	0 100	600 600	100 100	
118	Rt. 1 - Bai Thuong Bai Thuong - Muong Piet	750 400	250 0	750 400	250 0	750 400	250 0	
127	Rt. 15 - Laos Bdr	600	100	600	100	600	100	Maintained in 1965 as the main supply route to Laos border and Jct Rt. 65, Laos, in effort to keep PAVN/PL troops in Sam Nena area resupplied.
* See	AP-1-335-4-1-65 INT							
						SECRE		

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NORTH VIETNAM

Requirement 2. Route Capacities

Highway Route Number	Highway Route Segment	*April Max. Ca Dry Season		Present Max. Ca Dry Season	p. Wet	Project 66 Max. Dry Season		Remarks
153	Jct Rt. 8 - Laos Bdr	Trail	Trail	Trail	Trail			5-mile track west of Jct Rt. 15 under improvement in late 1965 and January 1966. Surface width 16-18 ft., improved earth. Remainder of route is only a 6 ft. track deteriorating to a trail 5 mi. east of Laos border.
154 193 196	Rt. 15 - Laos Bdr	50 300 50	0 0 0	50 50 50	0 0	300	100	Possibly motorable, connecting waterway at Lang Mo and Laos border. Probable future connection with Laos Rt. 911.
702								Trail/track only. Development into motor route expected but extent unknown.
* See	AP-1-335-4-1-65 INT				05			
. 19					SE	CRET	*	

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Requirement 2. (Con't)

LAOS

Highway Route Number	Highway Route Segment	*April Max. Ca Dry Season		Present Max. Ca Dry Season	p. Wet	Project 66 Max. Dry Season		Remarks
9	SVN Bdr - Song Cua Lo Riv Song Cua Lo Riv - Rt, 23	800 550	150 50	400 600 550	0 100 50	750	150	a. SVN - Ban Dong; 14 mi.; seasonal not used for thru traffic; poor condition. b. Ban Dong - Song Cua Lo Riv; 13 mi.; limited all-season; fair condition. When grayel surface is improved to fair condition.
12	SVN Bdr - Rt. 8	600	100	450	100			Gravel surface deteriorated to improved earth.
23 ,	Rt. 12 - Rt. 9	400	0	500 306	100			a. Rt. 12 - Rt. 11; 16 mi.; limited all-season, improved earth and log-corduroyed surface; fair condition. b. Seasonal; no thru traffic reported during the 1965
	Rt. 9 - Se'Bang Hieng Riv Se'Bang Hieng Riv - Jct Rt. 16 Jct Rt. 16 - Ban Thateng Ban Thateng - Jct Rt. 232 Jct Rt. 232 - Rt. 13	150 400 700 700 3800	0 0 150 150 1100	150 400 700 700 3800	0 0 150 150 1100		Application and the control of the c	rainy season.
92	SVN Bdr - Song Ben Ha Riv Song Ben Ha Riv - Rt. 9 Rt. 9 - Jet 921 Jet 921 - Jet 922 Jet 922 - Jet 162	150 50 500 500 400	50 0 100 100 100	1.50 1.50 400 400 1.50 90	50 50 100 100 50	400	100	New Alinement joins Rt. 9 Vic Sepone. Leaves Rt. 9 Vic. Bang Dong; limited all-season. Limited all season. a. Rt. 922 - Rt. 923; under repair in January 1966. b. Rt. 923 - Rt. 162 appears abandoned; traffic thru Rt. 96.
			,		SECRE		en la destacación de la composition della compos	

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Requirement 2. (Con't)

Highway Route Number	Highway Route Segment	*April Max. Ca Dry Season		Present Max. Ca Dry Season	p. Wet	Project 66 Max. Dry Season		Remarks
96	Rt. 923 - Rt. 165 Rt. 165 - Rt. 16 - CA/LA border			Est.200 Est.50	Est.50 Est.0	400 400	100 100	Under construction as of January 1966. Under improvement, possibly jeepable as of January 1966.
165	Rt. 16 - SVN Bdr	50	0	100 200	0 50	400	100	a. Rt. 16 - Rt. 96, poor condition, seasonal. b. Rt. 96 - SVN; fair condition, seasonal.
911	Rt. 23 - Rt. 91			Est.200	Est.10	500	100	Rt. under construction and improvement January 1966; limited all season; alternate to Rt. 23.
921	Rt. 92 - SVN Bdr	200	50	50	0			Traffic possibly proceeding via Rt. 922; deteriorated to 6-8 ft. track.
922	Rt. 92 - SVN Bdr	100	0	200	50			Limited all-season; surface improved by log-corduroy method.
923	Rt. 92 - Ban Tampril	50	0	400 50	100			a. Rt. 92 - Rt. 96; 4 mi.; improved in conjunction with Rt. 96. b. Rt. 96 - Ban Tampril; jeepable track.
16	Jct Rt. 23 - Attopev Attopev - Muong Cao Muong Cao - SVN Bdr	400 500 50	0 0 0	400 500 50	0 0 0			Jeepable track.
, 167	Rt. 16 - Attopev Old (YB 0052)-(YB 0837) Attopev Old - YB 1945 YB 1945 - Jct Rt. 16 (YB 4431)			450 650 50	8			Bypass of the Attopev Conclave; 11 mi. Improved earth in poor condition; 7 mi. Jeepable track; 12 mi.
* See					SECRE			

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Requirement 2. (Con't)

CAMBODIA

		*April	1965			Projected Dec		
Highway :	Highway	Max. Ca				66 Max. Cap.		
Route	Route	Dry	Wet		Wet	Dry	Wet	
Number	Segment	Season	Season	Season	Season	Season	Season	Remarks
1	Phnom Penh to S.V. border			3600	1550	No cha	nge	
7	Skoun to Snoul			3650	1550	17	11	
78	Phumkrek to S.V. border			900	100	**	11	
13	Laos border to S.V. border			900	300	**	11	The controlling section extends from Snoul to S.V. border; from Snoul to Laos border, cap.
								is 3650/1570.
19	Jct Rt. 13 vic. Stung Treng to S.V. border			700	250	11	11	
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Requirement 2. (Con't)

NORTH VIETNAM

Waterway	Waterway	*April Max. Ca		Present Max. Ca		Project		
Route	Route	Dry	Wet	Dry	Wet		Wet	
Number	Segment		Season				Season	Remarks
Song Chu	Mouth of Song Chu - Bai Thuong Bai Thuong - Samnuea, Laos	25 0	50 25	25 0	50 25			
Song Ca	Benthuy - Tuong Que Tuong Que - Tri Le	250 S Peren	S.T.P.D. T.P.D. nially	250 S. Perenn				
	Tri Le - Cau Rao	0	50	0	50	1		
Song Ngan	Sau Song Ca Riv - Houng Khe Houng Khe - Bai DVC Thon	25 25	2000 S.T.P	25 .D. Peren	2000 hially			
Kien Giang	Tonkin Gulf - Than Ha Than Ha - Luat Son	1000 25	2500 50	1000 25	2500 50			
Ben Xe	Confluence of Ben Hai Riv - Ben Quang	50	S.T.P	.D. Peren	rially			
Song Ben Hai/Rao Thanh	Mouth of Song Ben Hai-Ban Tham Ban Tham - Bo Ho So	1000 50	2000 150	1000 50	2000 150		v	
	son denotes low water son denotes high water							
					SECR	ET		

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Requirement 2. (Con't)

LAOS

	The second secon	*April	1965	Present		Project	ed Dec	1
Waterway	Waterway	Max. Ca		Max. Ca		66 Max.		
Route	Route		Wet #	Dry 🔻			Wet *	
Number	Segment	Season	Season	Season	Season	Season	Season	Remarks
Se Bang	Mekong Riv - Bang Dang	50	500	50	500			
Fai	Bang Dang - to Rt. 23 Channel	25	50	25	50			
Ca Dama	Overpass Mekong Riv - Ban Nathon	50	500	50	500			
Se Bang Hleng	Ban Nathon - SVN Bdr	50		D. Peren				
nieng	ban Machon - SVN bar	1 50	5.1.1	D. 10101	1			
Se Pone	Confluence with Se Bang Hleng -	50	500	50	500			
20 10	SVN Bdr					1		
Se Kong	Cambodia - Waterfall N.E. of	25	250	25	250			
	Ban Phone						ł	
	Waterfall - An Ling	25	50	25	50			
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* Dry se	son denotes low water							
Wet se	son denotes high water	1						
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Requirement 2. (Con't)

CAMBODIA

		*April		Present		Project 66 Max.	ed Dec			
Waterway	Waterway	Max. Ca		Max. Cap	Wet*	Dry*	Wet*			
Route	Route	Dry *	Season	Season			Season	Remarks		
Number	Segment	Season								
Srepok (Ea Krong)	Stung Treng RVN border	25STPD	50STPD	25STPD	50STPD	25STPD	50STPD			
Ea Hleo/ IA Meur	Srepok to RVN border	_	25STPD		25STPD		25STPD			
Ya Drang	Srepok to RVN border	25STPD	50STPD	25STPD	50STPD	25STPD	50STPD			
Se San	Srepok to RVN border		25STPD		25STPD	1	25STPD			
Se Kong	Stung Treng to Laotian border	25STPD	250STPD	25STPD	250STP	d 25STPD	250STPD			
* Dry sea Wet sea	son denotes low water son denotes high water				SEC	RET				
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